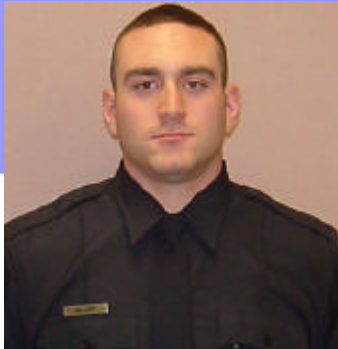


The Police Corps Weekly

Week 12

December 1, 2003



Recruit Profile

Name:

Brian Miller

Hometown:

Aurora, IL

Sponsoring Agency:

Kenosha Police Dept.

College:

Carthage College

Hobbies:

Football

Fishing

Weightlifting



Happy Thanksgiving!

Edited by Recruit Scott

Photographs by Recruit Gleif

WISCONSIN POLICE CORPS

LAW COMMUNITY JUSTICE

RADAR Operations Week

By Recruit Schaal

The majority of Week 12 was spent learning about RADAR (Radio Detection And Ranging) Operations, presented by Lieutenant Neuman. A strong emphasis was placed on the theory and mechanics of how RADAR works, since it is one of the most commonly used tools in law enforcement.

In the first segment of the class, Lieutenant Neuman discussed exactly what police RADAR is, the scientific and mathematical principles behind it, and how it works. The recruits had to dust off their math skills to learn complex concepts, such as the Doppler shift, frequency constants, cosine effects, and determining range.

After the recruits had a good understanding



of how RADAR works, they learned about stationary and moving RADAR, the differences between them, and how the concepts previously learned can manipulate the readings received. The recruits also learned how anomalies such as scanning, beam reflection, and different forms of interference could limit the effectiveness of RADAR. Emphasis was placed on how to explain RADAR and the anomalies that affect it, because officers often have to testify in court about their operation of RADAR.

On Tuesday, the recruits saw first hand how RADAR can be affected by some of these anomalies. Lieutenant Neuman, Mr. Lobe and Mr. Sacia used two different RADAR units to demonstrate how a speed-

reading could be misjudged depending on the angle the unit is being used at. This is also known as the cosine effect. At the same time, the recruits took a practical exam on visually estimating a vehicle's speed.

On Wednesday, the recruits took the practical and written exam. The recruits had to demonstrate their knowledge of RADAR by explaining how to set



up and operate a RADAR unit. They were then tested on the scientific and mathematical principles of RADAR. Everyone passed with flying colors and could enjoy their Thanksgiving break knowing that they now have some of the best RADAR training Wisconsin offers.



Happy Thanksgiving!

